

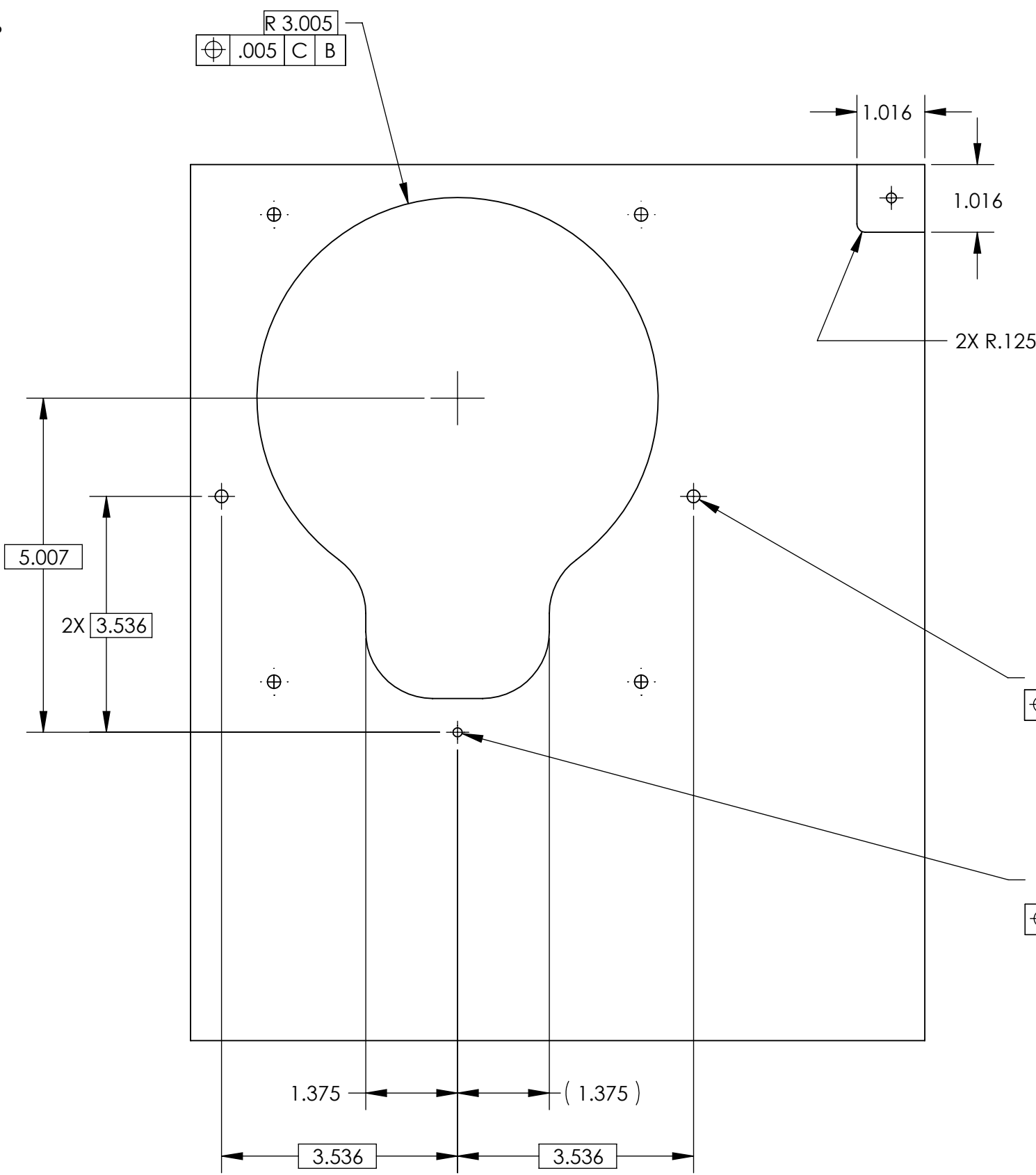
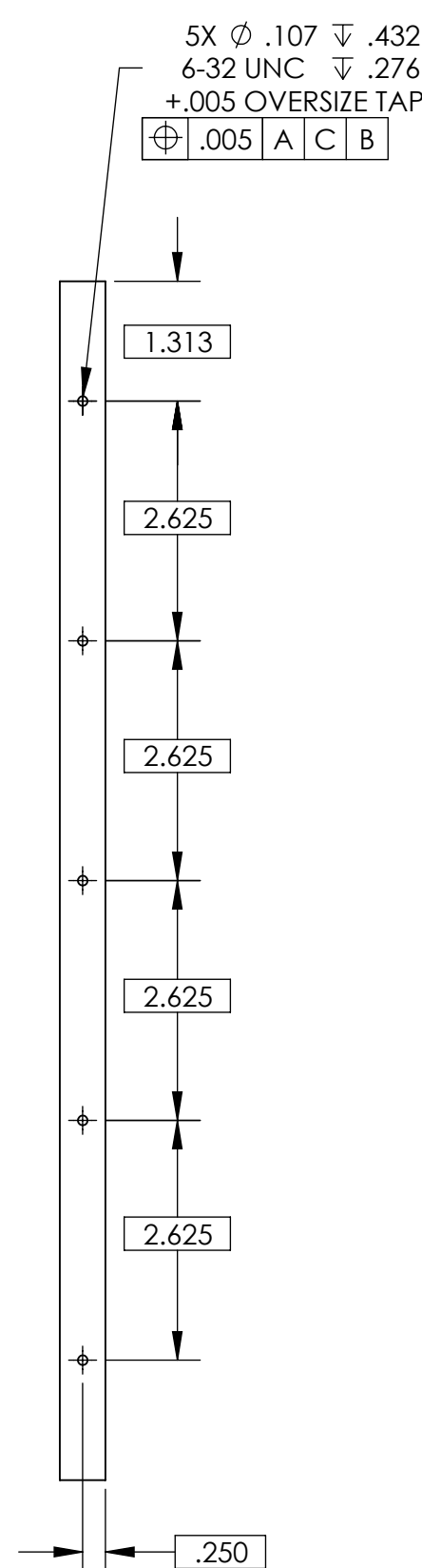
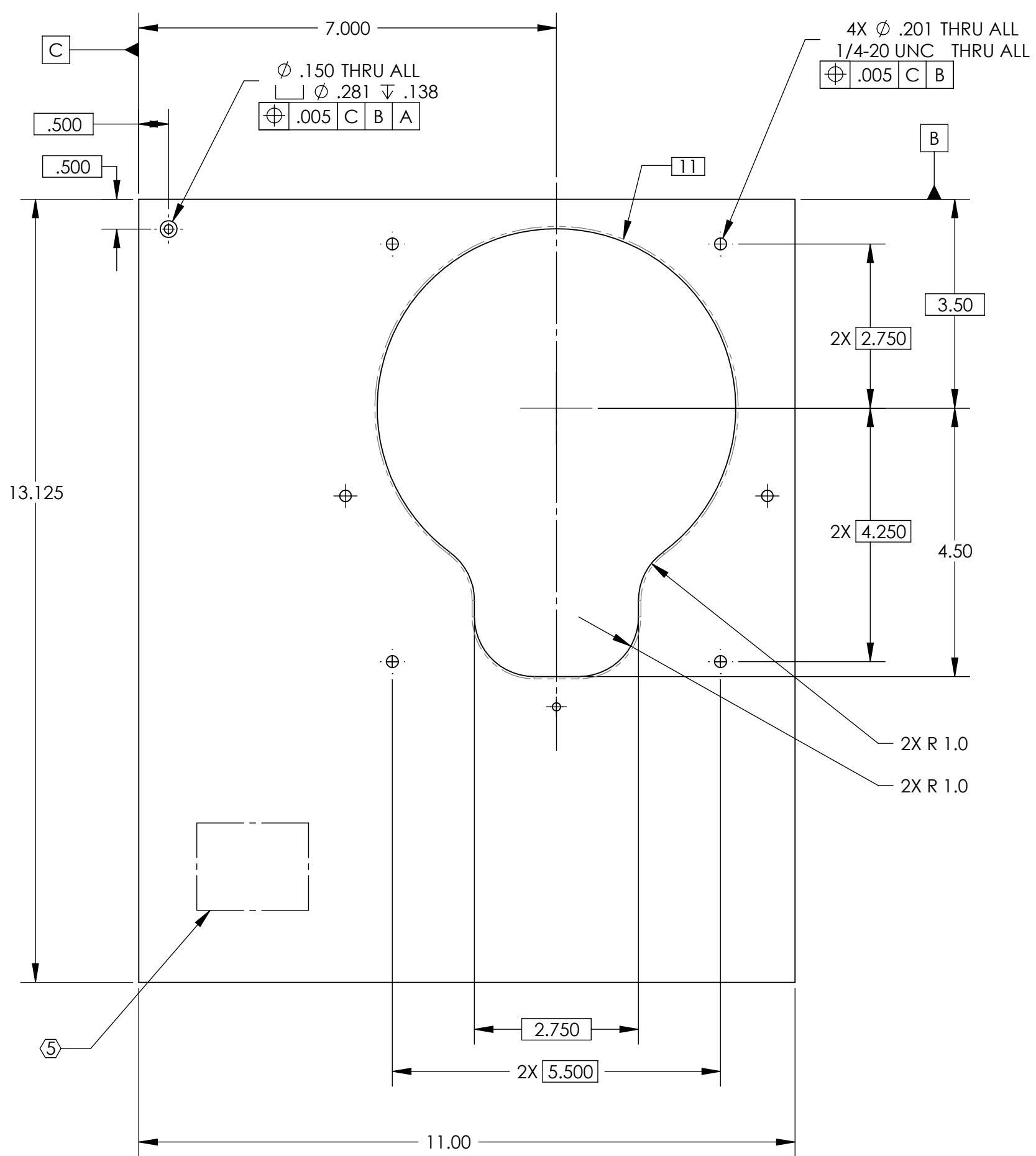
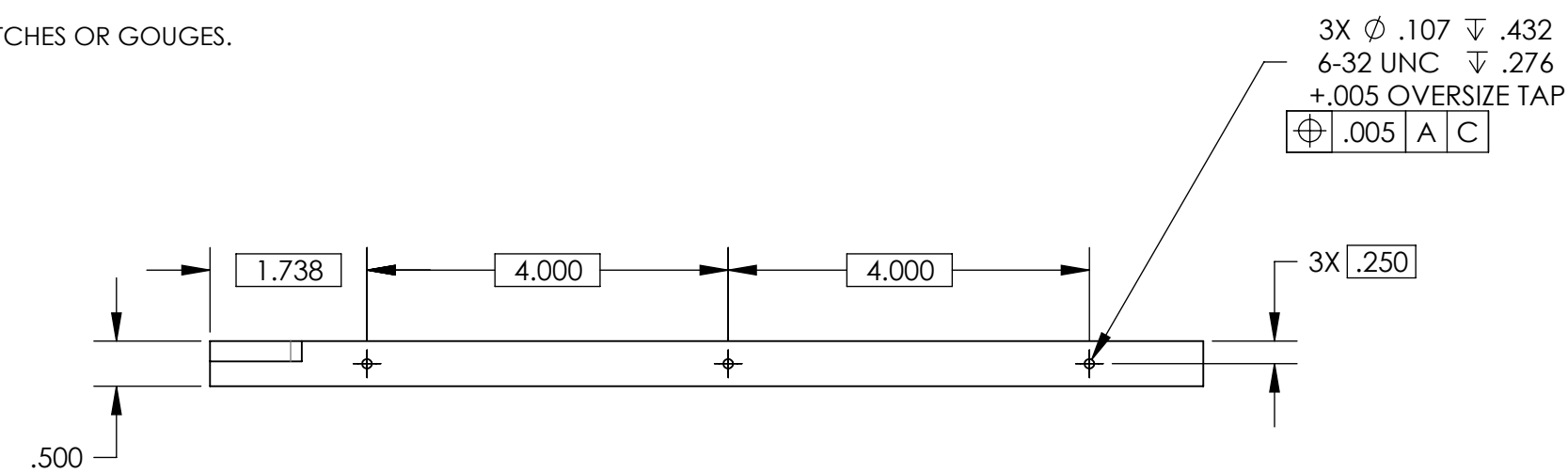
NOTES CONTINUED:  
 5 SCRIBE, ENGRAVE (A VIBRATORY TOOL MAY BE USED), LASER MARK OR MECHANICALLY STAMP (NO INKS OR DYES) DRAWING PART NUMBER, REVISION (AND VARIANT OR 'TYPE' IF APPLICABLE) ON NOTED SURFACE OF PART FOLLOWED ON THE NEXT LINE WITH A THREE DIGIT SERIAL NUMBER. SERIAL NUMBERS START AT 001 FOR THE FIRST ARTICLE AND PROCEED CONSECUTIVELY. USE MINIMUM 0.12" HIGH CHARACTERS, UNLESS THE SIZE OF THE PART DICTATES SMALLER CHARACTERS. EXAMPLE: DXXXXXX-VY, TYPE-XX, S/N XXX

- 6 APPROXIMATE WEIGHT = 2.5 LB
- 7 MACHINE ALL SURFACES TO REMOVE OXIDES AND MILL FINISH. USE OF ABRASIVE REMOVAL TECHNIQUES IS NOT ALLOWED. REFER TO LIGO-E0900364
- 8 ALL PARTS SHALL BE MANUFACTURED IN ACCORDANCE WITH LIGO SPECIFICATION E0900364.
- 9 ALL MATERIAL IS TO BE VIRGIN MATERIAL (i.e. NO WELD REPAIRS, PLUGS OR RECYCLED MATERIAL). NO REPAIRS SHALL BE MADE UNLESS APPROVED IN ADVANCE, AND IN WRITING, BY LIGO LABORATORY. REFER TO LIGO-E0900364
- 10 SURFACE FINISH TO BE AS-PROCESSED FROM MILL/SUPPLIER. FREE FROM SCRATCHES OR GOUGES.

11 R .5 ALONG ENTIRE TANGENT EDGE.

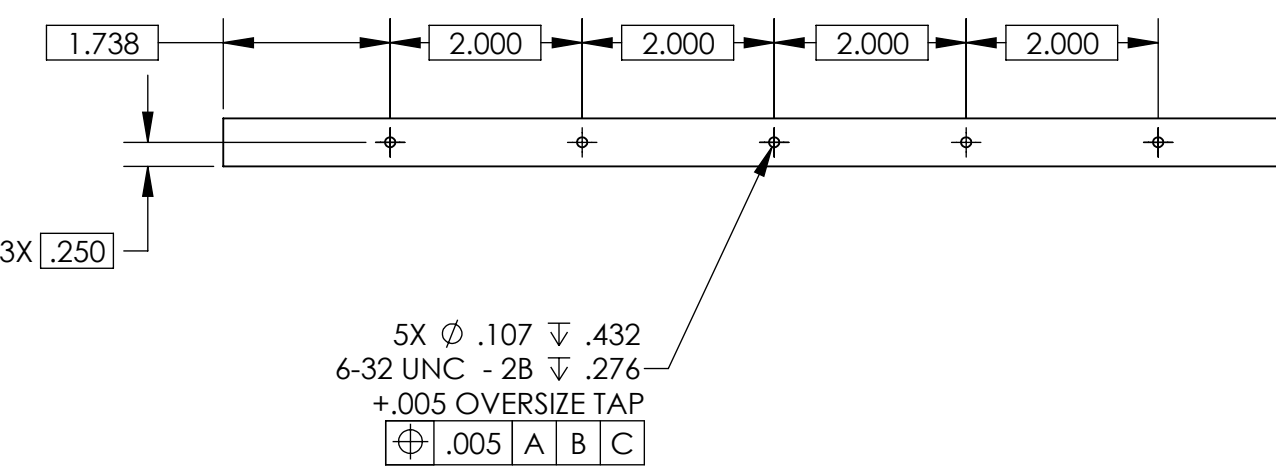
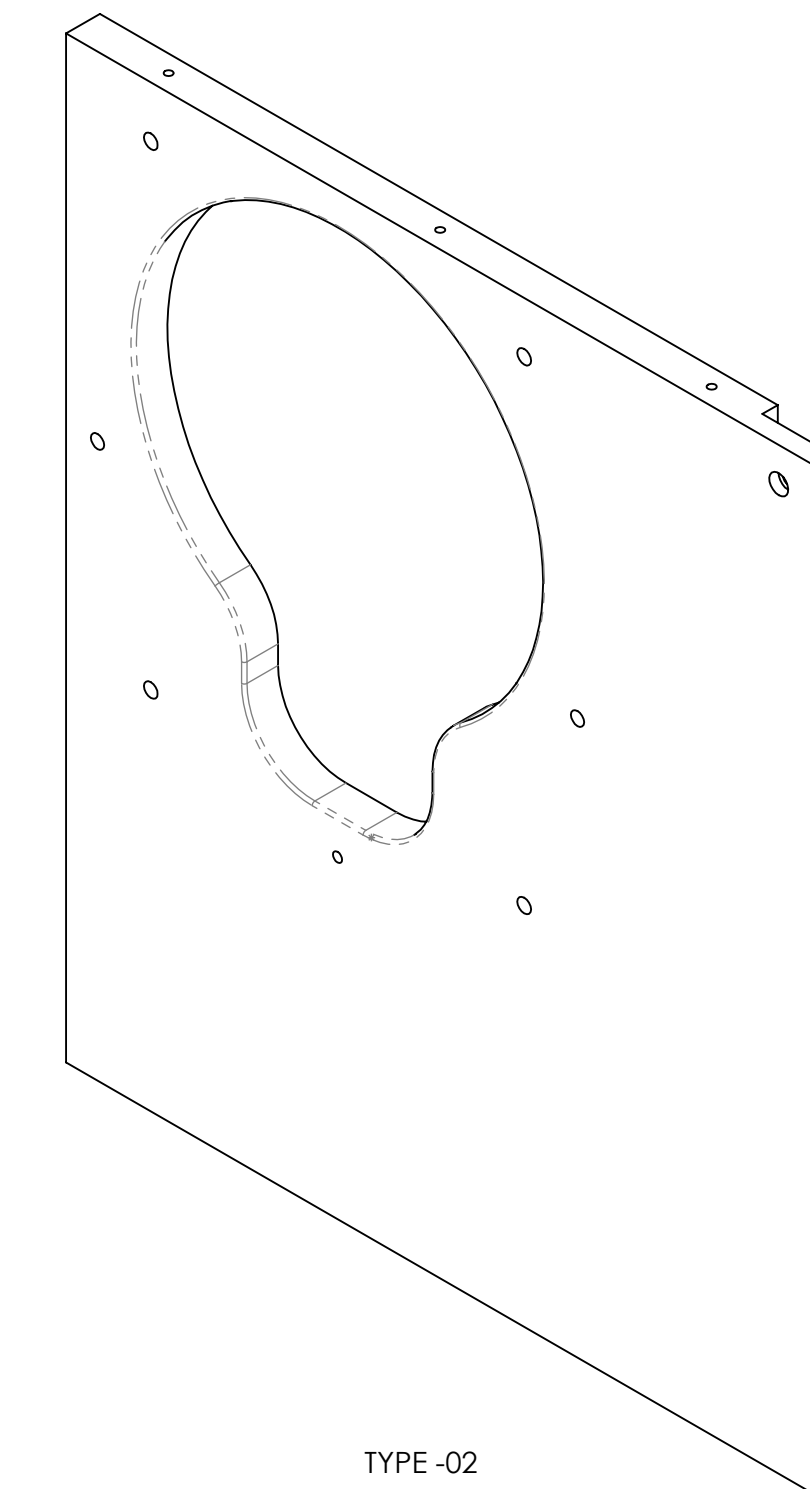
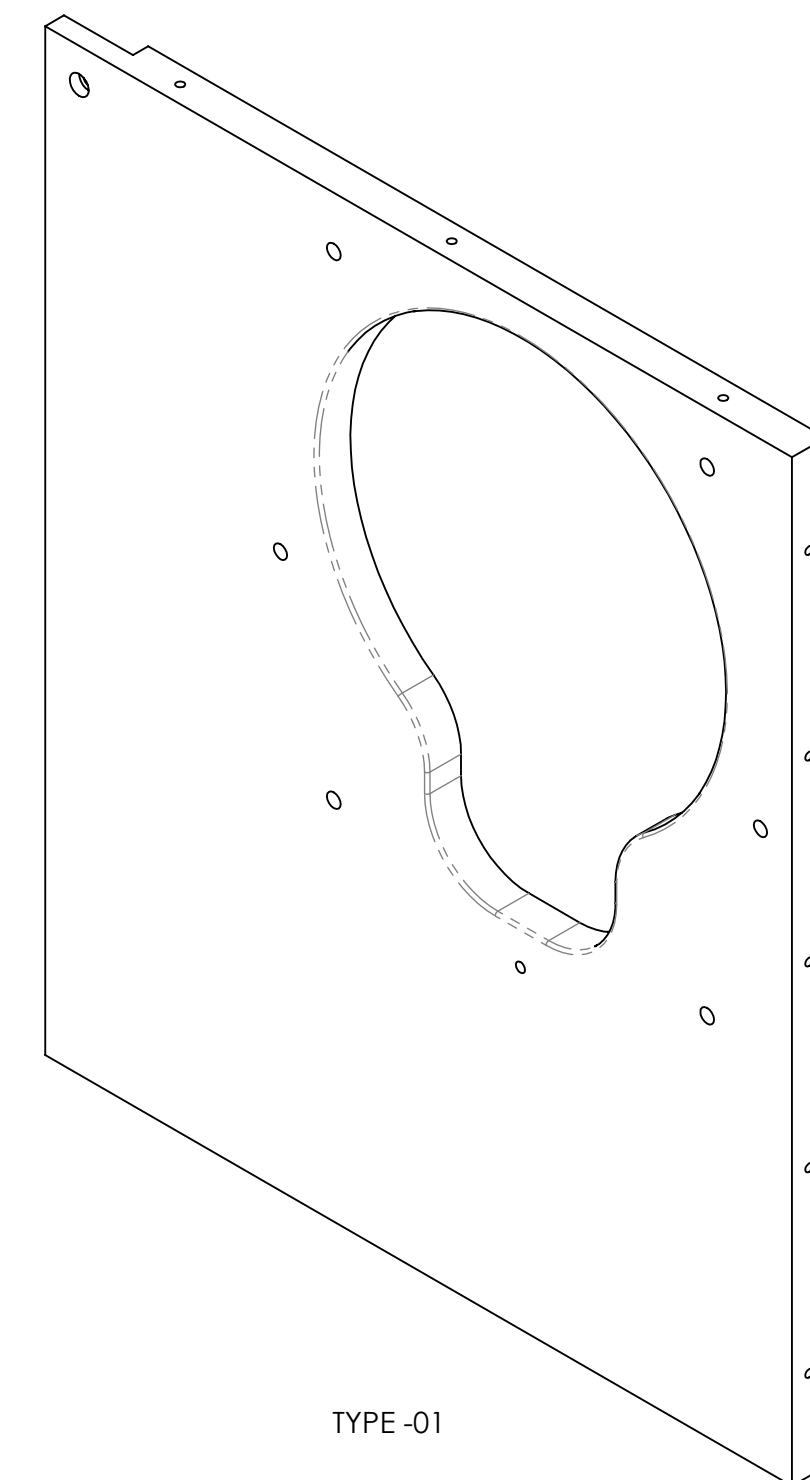
| TYPE (CONFIGURATION) | DESCRIPTION                           |
|----------------------|---------------------------------------|
| -01                  | aLIGO, TCS, H2, X-ARM (SHOWN)         |
| -02                  | aLIGO, TCS, H2, Y-ARM (MIRROR OF -01) |

| REV. | DATE        | DCN #       | DRAWING TREE # |
|------|-------------|-------------|----------------|
| v2   | 22 AUG 2011 | E1100655-v1 | E1100656-v1    |
| -    | -           | -           | -              |
| -    | -           | -           | -              |



2X  $\phi$  .194 THRU ALL  
 $\oplus$  .005 | C | B

$\phi$  .136 THRU ALL  
 8-32 UNC THRU ALL  
 $\oplus$  .005 | C | B



| NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)  |   |
|---|---|
| 1. INTERPRET DRAWING PER ASME Y14.5-1994.   |   |
| 2. REMOVE ALL SHARP EDGES, .005-.015, FOR MACHINED PARTS. ROUND ALL EDGES APPROXIMATELY R.02 FOR SHEET METAL PARTS. |   |
| 3. DO NOT SCALE FROM DRAWING.   |   |
| 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.    |   |
| DIMENSIONS ARE IN INCHES  | TOLERANCES:<br>.XX $\pm$ .01<br>.XXX $\pm$ .005 |
| ANGULAR $\pm$ 1.0°  |   |
| MATERIAL  | FINISH  |
| 6061 Alloy  | 63 $\mu$ inch                                   |

|   |            |
|---|------------|
| CALIFORNIA INSTITUTE OF TECHNOLOGY<br>MASSACHUSETTS INSTITUTE OF TECHNOLOGY |            |
| SYSTEM  | SUB-SYSTEM |
| ADVANCED LIGO   | AOS        |
| NEXT ASSY   |            |
| D1003221  |            |

| PART NAME                      |             |             |                                      |
|--------------------------------|-------------|-------------|--------------------------------------|
| BOTTOM WALL, CO2P VP ENCLOSURE |             |             |                                      |
| DESIGNER                       | A. LANGLEY  | 21 MAR 2011 | SIZE DWG. NO.                        |
| DRAFTER                        | A. LYNCH    | 05 AUG 2011 | D D1003220                           |
| CHECKER                        | M. JACOBSON | 22 AUG 2011 | REV. v2                              |
| APPROVAL                       | A. BROOKS   | 23 AUG 2011 | SCALE: 1:2 PROJECTION:  SHEET 1 OF 1 |

D1003220\_BOTTOM WALL\_CO2P\_VP ENCLOSURE\_PART PDM REV: X037\_DRAWING PDM REV: X014